In the Claims

- 1. (currently amended) An RF power amplifier formed using an integrated circuit having a plurality of interface pins, comprising:
- a power amplifier circuit;
- a mode selection pin for selecting a first mode or a second mode of operation, wherein the first mode of operation is a serial interface mode and the second mode of operation is a non-serial interface mode;
- a first interface pin, wherein the first interface pin has a first function in the first mode of operation and a second function in the second mode of operation; and a serial interface formed using the integrated circuit for sending and receiving signals.

Claim 2 (canceled)

- 3. (previously presented) The RF power amplifier of claim 1, further comprising a second interface pin, wherein the second interface pin has a first function in the first mode of operation and a second function in the second mode of operation.
- 4. (previously presented) The RF power amplifier of claim 1, wherein the first mode is a serial interface mode and the second mode is a pin control mode.
- 5. (previously presented) The RF power amplifier of claim 1, wherein the mode control pin is used as an internal voltage source in the power amplifier.
- 6. (original) The RF power amplifier of claim 5, wherein the mode control pin is used as an internal voltage source in the power amplifier only when the first mode is selected.

- 7. (withdrawn) The RF power amplifier of claim 1, wherein the RF power amplifier further comprises:
- a plurality of pins for coupling to a serial bus; and
- a low pass filter coupled to one of the pins for filtering control signals to reduce RF noise.
- 8. (withdrawn) The RF power amplifier of claim 1, wherein the RF power amplifier further comprises:
- a plurality of pins for coupling to a serial bus; and
- a gate circuit coupled to a first pin for selectively blocking the signal received at the first pin.
- 9. (withdrawn) The RF power amplifier of claim 8, wherein the signal is blocked when the RF power amplifier is enabled.
- 10. (withdrawn) The RF power amplifier of claim 8, wherein the first pin receives a serial clock signal.
- 11. (withdrawn) The RF power amplifier of claim 1, wherein the RF power amplifier further comprises:
- a serial data output pin for coupling to a serial bus; and a tri-state driver coupled to the serial data output pin.
- 12. (withdrawn) The RF power amplifier of claim 11, wherein the tri-state driver tri-states the output pin while the RF power amplifier is transmitting.
- 13. (withdrawn) The RF power amplifier of claim 12, further comprising a bias circuit for biasing the tri-stated output pin while the RF power amplifier is transmitting.

- 14. (currently amended) A wireless communication device comprising: a controller circuit adapted to control the operation of the communication device; a transceiver;
- an RF power amplifier having a mode control pin and a plurality of interface pins, wherein the

 state of the mode control pin determines whether the RF power amplifier operates using a

 serial interface mode or a non-serial interface mode, and wherein the plurality of interface

 pins provide a serial interface with the controller circuit in the serial interface mode and

 the plurality of interface pins provide a non-serial interface with the controller circuit in

 the non-serial interface mode; and
- an RF power amplifier having a mode control pin and a first interface pin, wherein the state of
 the mode control pin determines whether the RF power amplifier operates using a serial
 interface mode or a pin control mode, and wherein the first interface pin has a first
 function in the serial interface mode and a second function in the pin control mode; and
 a serial bus coupled to the controller, transceiver, and RF power amplifier.
- 15. (withdrawn) The wireless communication device of claim 14, wherein the power amplifier includes a sensor for sensing a property of the power amplifier.
- from the sensor is transmitted to the controller over the serial bus.
 - 17. (withdrawn) The wireless communication device of claim 16, wherein the sensor is a temperature sensor.

- 18. (previously presented) The wireless communication device of claim 14, wherein the controller transmits a band control signal to the transceiver over the serial bus, and wherein the power amplifier monitors the serial bus and automatically selects a band based on the band control signal.
- 19. (withdrawn) The wireless communication device of claim 14, wherein the serial bus is disabled when the power amplifier is enabled.

Claim 20 (canceled)

- 21. (previously presented) The wireless communication device of claim 14, further comprising a coupling between the controller and the mode control pin, wherein the controller supplies the power amplifier with a voltage supply via the coupling to the mode control pin.
- 22. (withdrawn) The wireless communication device of claim 14, wherein the serial bus is disabled when the power amplifier is transmitting.
- 23. (withdrawn) The wireless communication device of claim 14, wherein the power amplifier further comprises:
- a plurality of pins for coupling to a serial bus; and
- a low pass filter coupled to one of the pins for filtering control signals to reduce RF noise.
- 24. (withdrawn) The wireless communication device of claim 14, wherein the power amplifier further comprises:
- a plurality of pins for coupling to a serial bus; and
- a gate circuit coupled to a first pin for selectively blocking the signal received at the pin.

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- 25. (withdrawn) The wireless communication device of claim 24, wherein the signal is blocked when the power amplifier is enabled.
- 26. (withdrawn) The wireless communication device of claim 25, wherein the first pin receives a serial clock signal.
- 27. (withdrawn) The wireless communication device of claim 14, wherein the power amplifier further comprises:
- a serial data output pin for coupling to a serial bus; and a tri-state driver coupled to the serial data output pin.
- 28. (withdrawn) The wireless communication device of claim 27, wherein the tri-state driver tri-states the output pin while the power amplifier is transmitting.
- 29. (withdrawn) The wireless communication device of claim 28, further comprising a bias circuit for biasing the tri-stated output pin while the power amplifier is transmitting.
- 30. (currently amended) A method of controlling an RF power amplifier in a wireless communications device, comprising:

providing a baseband controller coupled to a digital bus;

providing an RF power amplifier having a serial interface for communicating with the digital bus and having a mode control pin;

applying a control signal to the mode control pin to select between a first mode of operation and a second mode of operation, wherein the first mode of operation is a serial interface mode and the second mode of operation is a non-serial interface mode;

providing a first interface pin, wherein the first interface pin has a first function in the first mode of operation and a second function in the second mode of operation; and coupling the serial interface of the RF power amplifier to the digital bus.

- 31. (withdrawn) The method of claim 30, wherein the power amplifier transmits signals in periodic bursts, and wherein the digital bus is disabled during the bursts.
- 32. (withdrawn) The method of claim 30, wherein the serial interface of the power amplifier uses a plurality of pins, the method further comprising the step of coupling a low pass filter to at least one of the pins.
- 33. (withdrawn) The method of claim 30, wherein the serial interface of the power amplifier uses a plurality of pins, the method further comprising the step of blocking the signal provided to a first pin of the power amplifier serial interface when the power amplifier is transmitting.
- 34. (withdrawn) The method of claim 30, further comprising providing a serial data output pin at the serial interface of the power amplifier; and when the power amplifier is transmitting, biasing the serial data output pin.
- 35. (withdrawn) The method of claim 30, further comprising providing a serial data output pin at the serial interface of the power amplifier; and when the power amplifier is transmitting, tri-stating the serial data output pin.
- 36. (withdrawn) The method of claim 35, further comprising biasing the tri-stated output pin.

- 37. (withdrawn) The method of claim 30, further comprising sensing a condition in the power amplifier; and sending information relating to the sensed condition over the digital bus.
- 38. (withdrawn) The method of claim 37, wherein the sensed condition is temperature.
- 39. (withdrawn) The method of claim 37, further comprising shutting down the RF power amplifier in response to the sensed condition.
- 40. (withdrawn) The method of claim 39, the RF power amplifier is shut down when a threshold temperature is sensed.

Claims 41-42 (canceled)

- 43. (previously presented) The method of claim 30, further comprising providing a second interface pin, wherein the second interface pin has a first function in the first mode of operation and a second function in the second mode of operation.
- 44. (previously presented) The method of claim 30, wherein the first mode of operation is a serial interface mode and the second mode of operation is a pin control mode.
- 45. (previously presented) The method of claim 30, wherein the baseband controller transmits a band control signal to the RF power amplifier over the digital bus, and wherein the RF power amplifier monitors the digital bus and automatically selects a band based on the band control signal.